



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, IL 60604-3590

REPLY TO THE ATTENTION OF:

AT-18J

MEMORANDUM

DATE: December 19, 2014

SUBJECT: Lake Mills Dataset

FROM: Bilal Qazzaz
Quality Assurance Coordinator
Air Monitoring and Analysis Section

THROUGH: Michael Compher
Section Chief
Air Monitoring and Analysis Section

TO: Loretta Lehrman
Quality Assurance Manager
Air and Radiation Division

BQ 12-19-14

MC 1/5/15

On September 2, 2014, USEPA collected air monitoring data for hydrogen sulfide and methane near Unlimited Resources in Lake Mills, WI. The dataset from this monitoring campaign has been officially submitted for my review and validation. I have reviewed the dataset and the attached (electronic) pre- and post-campaign quality control and audit results according to the GMAP Quality Assurance Project Plan signed on May 13, 2014. As a result of the GMAP system passing the pre- and post-campaign quality control checks and audit, I am validating the dataset based on the quality control and audit criteria being met.

If you have any questions, please feel free to contact me at qazzaz.bilal@epa.gov.



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REGION 5
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CHICAGO, IL 60604-3590

REPLY TO THE ATTENTION OF:

AT-18J

MEMORANDUM

SUBJECT: Unlimited Renewables; Lake Mills, Wisconsin GMAP Air Monitoring Data, September 2014

FROM: Marta Fuoco *MF*
Environmental Scientist
Air Monitoring and Analysis Section

TO: Bilal Qazzaz *BQ* 11-24-14
Environmental Scientist
Air Monitoring and Analysis Section

On September 02, 2014 USEPA collected air monitoring data for hydrogen sulfide and methane around Unlimited Resources in Lake Mills, WI. This memorandum officially submits five data sets for your review and validation. I have also included the necessary supporting documentation in the attachments. The data sets are available on the G shared drive and have been appropriately protected against inadvertent manipulation. The flag descriptions can be found in Attachment 2. Please see Attachment 1 for the Activity Log files; the entire set of audit and calibration files will be submitted electronically.

The file names and dates of data collection are as follows:

File Name: BFADS02-20140902-1526-UserLogQC.xlsx	Date: 09/02/14
File Name: BFADS02-20140902-1332-UserLog.xlsx	Date: 09/02/14
File Name: BFADS02-20140902-1319-UserLogST.xlsx	Date: 09/02/14
File Name: BFADS02-20140902-1157-UserLog.xlsx	Date: 09/02/14
File Name: BFADS02-20140902-1101-UserLogQC.xlsx	Date: 09/02/14

Pre and post audits were completed on September 02, 2014 by US EPA.

Attached to this memorandum are the following:

Attachment 1: Audit Sheets

Attachment 2: Explanation of Data Flags

Please review all data sets according to the attached Quality Assurance Project Plan signed on May 13, 2014. If you have questions about this information please contact me. I appreciate your involvement in the data validation process.

Attachment 1

GMAP Activity Log File

All Audit & Calibration Sheets located:

G:\Air Toxics And Assessment Branch\GMAP\2014 season

COMPLETE THIS LOG EACH TIME THE PICARRO IS POWERED UP

DATE	ACTIVITY	COMMENTS
5/2/2014	Initial run of cylinders.	[REDACTED] Ex 5, 7A deliberative process
5/9/2014	Calibration	[REDACTED] Ex 5, 7A delib. process
5/12/2014	Calibration	[REDACTED]
5/13/2014	Pre sampling QC Checks	[REDACTED]
5/13/2014	Post sampling QC Checks	[REDACTED] Ex 5, 7A deliberative process
5/14/2014	Pre sampling QC Checks	[REDACTED]
5/15/2014	Audit in the field	[REDACTED]
5/15/2014	Post sampling QC Checks	[REDACTED]
6/2/2014	Calibration of CH4	[REDACTED] Ex 5, 7A deliberative process
6/3/2014	Pre sampling QC Checks	[REDACTED]
6/4/2014	Audit in the field	[REDACTED]
6/5/2014	Post sampling QC Checks	[REDACTED]
6/19/2014	Pre sampling QC Checks	[REDACTED]
6/19/2014	Post sampling QC Checks	[REDACTED]
6/24/2014	Pre sampling QC Checks	[REDACTED] Ex 5, 7A deliberative process
7/9/2014	Pre sampling QC Checks	[REDACTED]
7/10/2014	Post sampling Audit	[REDACTED]
7/24/2014	Pre sampling QC Checks	[REDACTED]
7/24/2014	Post sampling QC Checks	[REDACTED]
9/2/2014	Pre sampling QC Checks	Pre sampling check for Lake Mills
9/2/2014	Post sampling QC Checks	Post Sampling check for Lake Mills

Attachment 2

Explanation of Data Flags

GMAP AQS Null Data Codes:

Qualifier Code	Qualifier Desc	Qualifier Type Desc	Qualifier Type	EPA R5 Comments:
AM	Miscellaneous Void	Null Data Qualifier	NULL	
AN	Machine Malfunction	Null Data Qualifier	NULL	Communication error; instrument not collecting, data set to null [NA]
AT	Calibration	Null Data Qualifier	NULL	
AZ	QC Audit	Null Data Qualifier	NULL	
BA	Maintenance/Routine Repairs	Null Data Qualifier	NULL	
BN	Sample Value Exceeds Media Limit	Null Data Qualifier	NULL	Values exceed range of unit in one or more channels and are invalid; both channels invalidated
MD	Value less than MDL	Null Data Qualifier	NULL	less than MDL (-6); invalid
ND	No value detected	Quality Assurance Qualifier	QA	zero drift; [MDL x -1]
QX	Does not meet QC criteria	Null Data Qualifier	NULL	

Office of Enforcement

REGION 5
77 West Jackson Boulevard
Chicago, Illinois 60604

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME						Activity Code:	
SAMPLERS: (Print Name and Sign)									
STA. NO.									
DATE		TIME		COMP.		GRAB			
STATION LOCATION									
NO. OF CON-TAINERS									
Analyte:									
TAG NUMBERS									
Relinquished by: (Signature)								Date / Time	
Received by: (Signature)								Date / Time	
Relinquished by: (Signature)								Date / Time	
Received by: (Signature)								Date / Time	
Relinquished by: (Signature)								Date / Time	
Received by: (Signature)								Date / Time	
ATTN:								Ship To:	
Airroll Number								Chain of Custody Seal Numbers	
Distribution: White - Accompanies Shipment; Pink - Coordinator Field Files; Yellow - Laboratory File									